(11) EP 1 074 617 A2

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication: 07.02.2001 Bulletin 2001/06

(21) Application number: 00116126.4

(22) Date of filing: 28.07.2000

(51) Int Ci.7: **C12N 15/12**, C12N 15/11, C07K 14/47, C07K 16/18, C12Q 1/68

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 29.07.1999 JP 24803699 27.08.1999 JP 30025399 11.01.2000 JP 2000118776 02.05.2000 JP 2000241899

(71) Applicant: Helix Research Institute Kisarazu-shi, Chiba 292-0812 JP

(72) Inventors:

Ota, Toshio
 Fujisawa-shi, Kanagawa 251-0042 JP

 Isogai, Takao Inashiki-gun, Ibaraki 300-0303 JP

 Nishikawa, Tetsuo Itabashi-ku, Tokyo 173-0013 JP Hayashi, Kohji Ichihara-shi, Chiba 292-0056 JP

 Saito, Kaoru Kisarazu-shi, Chiba 292-0056 JP

 Yamamoto, Junichi Kisarazu-shi, Chiba 292-0041 JP

 Ishii, Shizuko Kisarazu-shi, Chiba 292-0812 JP

Sugiyama, Tomoyasu
 KIsarazu-shl, Chiba 292-0045 JP

 Wakamatsu, Ai Kisarazu-shi, Chiba 292-0014 JP

 Nagai, Keiichi Higashiyamato-shi, Tokyo 207-0022 JP

 Otsuki, Tetsuji Kisarazu-shi, Chiba 292-0045 JP

(74) Representative: VOSSIUS & PARTNER Slebertstrasse 4 81675 München DE

(54) Primers for synthesising full-length cDNA and their use

(57) Primers for synthesizing full-length cDNAs and their use are provided.

5602 cDNA encoding a human protein has been isolated and nucleotide sequences of 5'-, and 3' -ends of the cDNA have been determined. Furthermore, prim-

ers for synthesizing the full-length cDNA have been provided to clarify the function of the protein encoded by the cDNA. The full-length cDNA of the present invention containing the translation start site provides information useful for analyzing the functions of the protein.